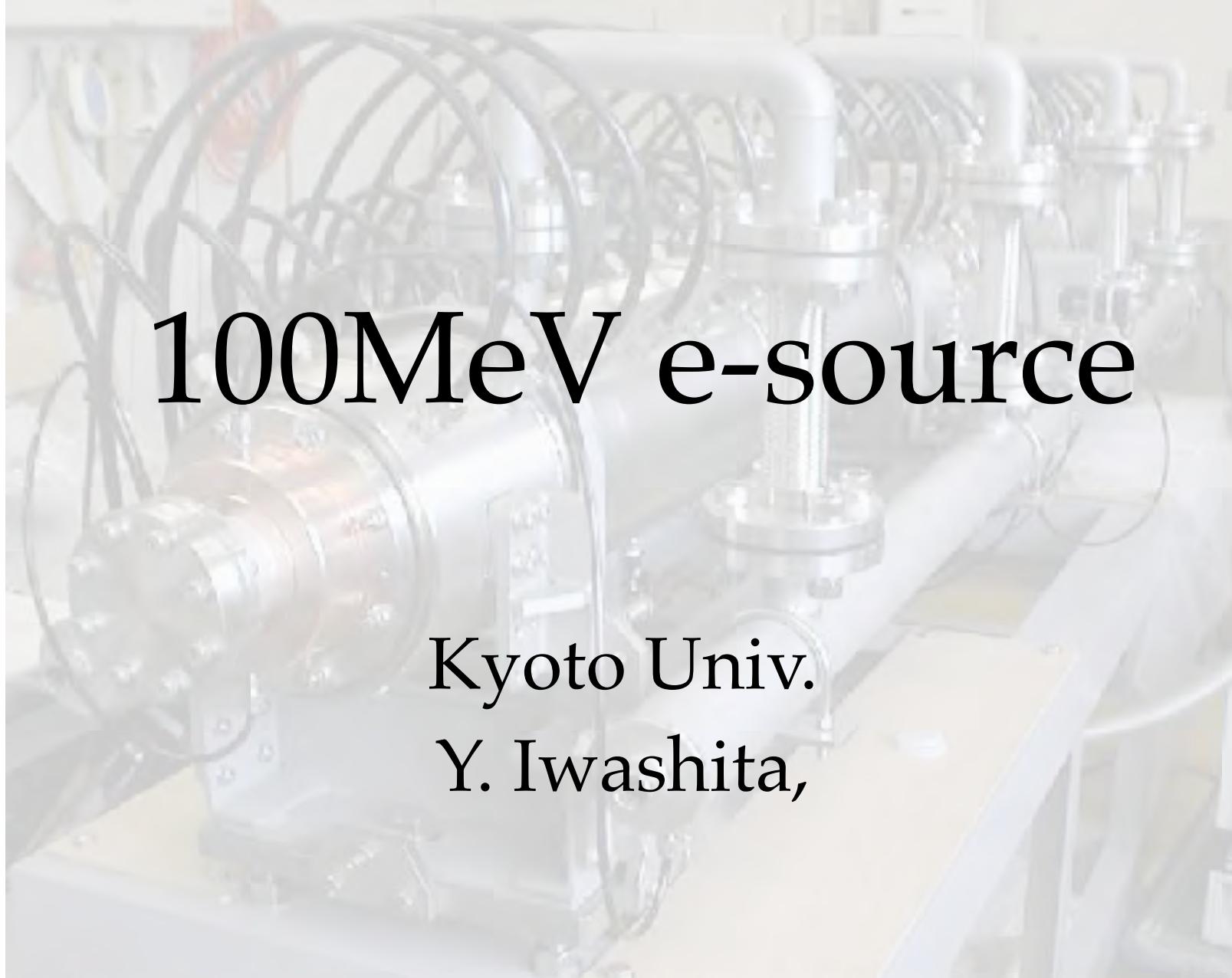


100MeV e-source

Kyoto Univ.
Y. Iwashita,



The mail from Kuno-san

岩下さま

Iwashita-sama,

(1) 電子エネルギーは、100MeV。エネルギーは可変20%。

$E=100\text{MeV}\pm10\%$

(2) 電子エネルギーの制度は、 10^{-3} 以下。

System of the electron energy is less than 10^{-3} .

(3) 電子カレントはちょろちょろ。

Electron current trickles.

(4) 繰り返しはたとえば数kHz。

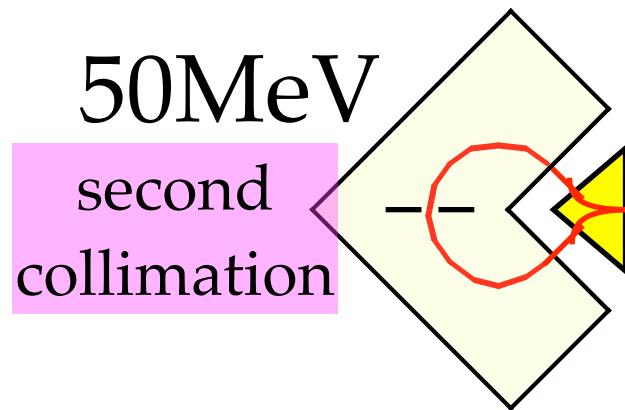
Repetition is, say a few or several kHz.

久野

Kuno

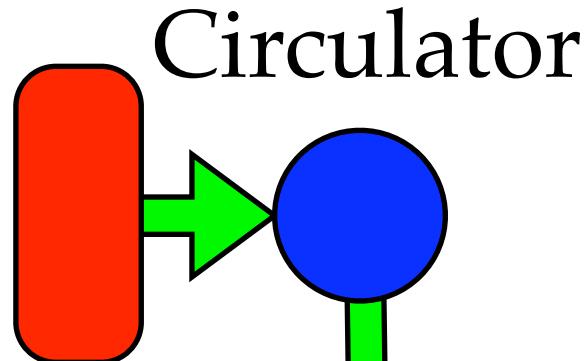
Recirculating LINAC

Klystron
 $P=20\text{MW}, 10\mu\text{s}$



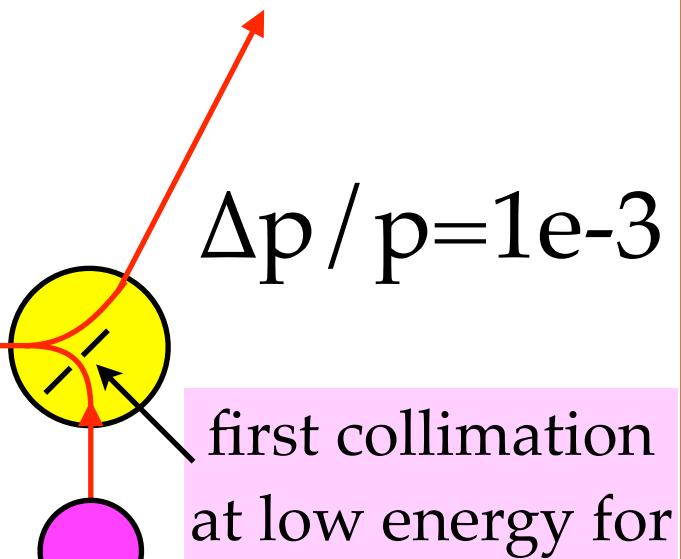
$$E = \sqrt{ZP}$$

$$Z \propto L$$

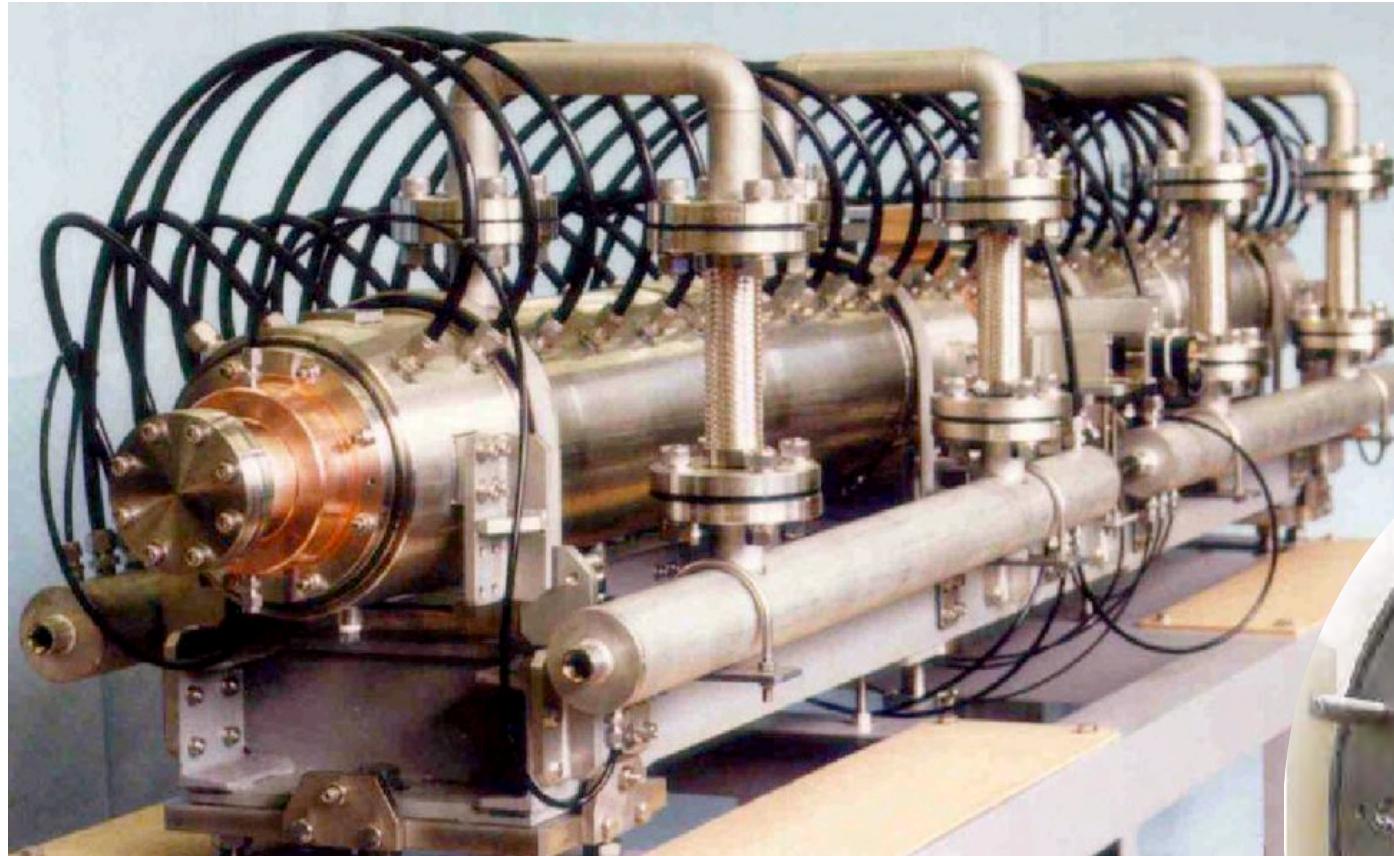


50MV each?
 $Z > 125\text{M}\Omega$
 $@2\sim 3\text{m}$

$100\text{MeV} \pm 10\%$



DAW Accelerating Tube



R&D stopped
after end of
project.



$f=2857\text{MHz}$
 $L=1.2\text{m}(24\text{cell})\times 2$
+Bridge Coupler
(20cm)

May generate
40MV@20MW
50MV possible?